

DATA SHEET

## 1900 Receiver Air Interface Tray

RMC-1819-2-8



- · Provides a common receive distribution point for multiple basestations
- 8 ports, 2 channel
- Integrated test ports
- Integrated Bias-Ts
- Eliminates single cabinet dependency
- AC coupled RF Ports
- QMA receive connectors provide the fastest and most positive connection
- Single 1U Tray

### Overview

CCI's Receiver Air Interface Tray (RX-AIT) provides a convenient multiport connection for multiple basestations. The RX-AIT provides two receive paths, each amplified and fully isolated, with eight outputs plus a test port. Each amplifier is fully alarmed with separate (isolated) power supplies. The unit is contained in a single 1U tray. Integrated bias-T's provide a pathway for TMA power, The RX-AIT also eliminates TMA and receive path dependency when operating with multiple technologies such as GSM and UMTS. High linearity LNAs maintains fidelity of UMTS and GSM/EDGE signals. The unit is housed in a single rack 19" mounted assembly designed to perfectly integrate with other elements of CCI's UMTS Cositing series.



### **SPECIFICATIONS**

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### **Electrical Specification**

Operating Band 1850 - 1910 MHz

Net Receive Gain (No bypass) 10 dB

Net Receive Gain (Bypass) -11 dB

Receive Gain Flatness  $\pm 1$  dB,  $\pm 0.2$  dB within any 3.84 MHz segment

Input Third Order Intercept +13 dBm Min

Noise Figure 2.5 dB typical

Phase Linearity ≤ 2° from linear phase over any 3.84 MHz segment

IM3 150 dBc min, 2×20 W carriers

DC Power Requirement 24 - 48 VDC (2A @ 27 VDC)

Alarm Connection Dry contact each amplifier

### **Environmental Specification**

Operating Temperature 0°C to +55°C

Lightning Protection Surge > 20KA, 20 KA Mult, Res Pulse < 250 uJ

### Mechanical Specification

### Input/Output Connections

Receive Output Ports 16 × QMA female (8 per channel)

Receive Input Ports 2 x N female (1 per channel)

Test Ports 2 × QMA female (coupled @ -20 dB) (1 per channel)

DC Power Input 1 × Amp SL-156 (2 pin male - 0.156 in. pitch)

Dimensions (body only)(H×W×D)  $\underline{10}$  or  $1.75 \times 19.0 \times 8.093$  in. (44.45 × 482.6 × 205.56 mm)

Dimensions (incl. connectors)( $H\times W\times D$ ) 1U or 1.75  $\times$  19.0  $\times$  9.50 in. (44.45  $\times$  482.6  $\times$  241.3 mm)

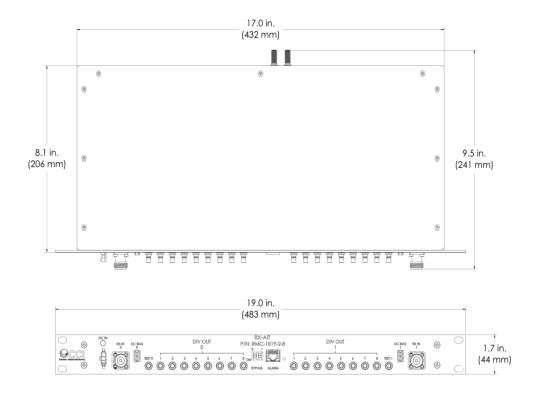
Weight 7.15 lbs (3.24 Kg)



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RMC-1819-2-8 Outline Drawing

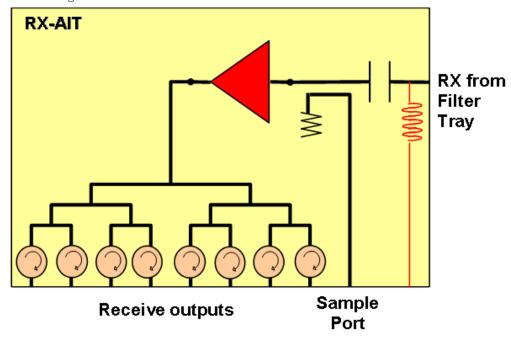


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## Block Diagram



RMC-1819-2-8 Block Diagram





**ORDERING** 

1900 Receiver Air Interface Tray

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Parts & Accessories

RMC-1819-2-8 8 port, 2 channel Multicoupler



**CERTIFICATIONS** 



1900 Receiver Air Interface Tray

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Certifications

Federal Communication Commission (FCC) Part 15 Class B, CE, CSA US

